

Homage to Christenson: combinations under *Maxillaria*^a

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Abstract

After the recent classification proposal for the Orchidaceae by M.W.Chase and his co-workers, the genus *Maxillaria* is here understood in its widest sense. Some changes are required in order to avoid inconsistency in the genus nomenclature and reflect this circumscription properly. Here, those combinations are proposed.

Résumé

Hommage à Christenson : nouvelles combinaisons sous *Maxillaria* – Dans la récente proposition de classification faite par M.W.Chase et ses collègues pour les Orchidaceae, le genre *Maxillaria* est entendu dans un sens très large et englobe plusieurs genres largement acceptés jusqu'ici. Certains transferts sont de ce fait rendus nécessaires afin d'éviter une incohérence dans la nomenclature du genre *sensu lato* et de refléter correctement sa nouvelle délimitation. Les combinaisons nouvelles correspondantes sont ici proposées.

Resumen

Homenaje a Christenson: combinaciones en *Maxillaria* – Luego de la reciente propuesta de clasificación de las Orchidaceae, el género *Maxillaria* es entendido en un modo muy amplio. Algunos cambios son necesarios

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para evitar la inconsistencia nomenclatural del género *sensu lato* y reflejar su circunscripción actual adecuadamente. Aquí, esos cambios son propuestos.

Introduction

For many years, the subtribe Maxillariinae Benth (Cymbidieae: Epidendroideae) has posed a challenge for taxonomists, especially in respect to the macrogenus *Maxillaria* Ruiz & Pavón (Whitten *et al.*, 2014). This genus has been considered to be a large assemblage of heterogeneous taxa (Whitten *et al.*, 2007; Blanco *et al.*, 2007), even if some authors accepted this heterogeneity as a component of a monophyletic clade (Christenson, 2013).

Since the availability of an increased resolution in DNA tests, a number of segregated genera were created in order to reflect the natural history of smaller groups that have a greater morphological coherence and strong molecular support (Szlachetko *et al.*, 2006; Singer *et al.*, 2007; Szlachetko & Smiszek, 2007; Blanco *et al.*, 2007; Ojeda *et al.*, 2009). Other genera were resurrected for the same reason (Carnevali, 2001). All these smaller genera were, and still are, widely accepted since the pioneering work of Blanco *et al.* (2007) because of the distinct support from molecular data and morphological traits.

However, recently, Chase *et al.* (2015) proposed an updated classification for the =Orchidaceae that, among other changes and suggestions, stated that the best way to deal with the *Maxillaria* problem is to treat it in a wide sense. This *Maxillaria sensu latissimo* is monophyletic, well-supported by molecular data and has three morphological traits that can be easily recognised by the “vast majority of users” of the taxonomic information: column foot with hinged lip, unifloral inflorescences and conduplicated lips (Chase *et al.*, 2015).

This philosophy reflects the lumping tendency that is the option of choice of many tropical botanists in many taxa, not only orchidaceous genera, but other important families too, such as Poaceae, Cactaceae (Molinari-Novoa, 2015). However, splitting also has many supporters and does have advantages, such as: practicality in recognising and defining groups within a macro-taxon, specificity when naming genera, and strong monophyly, statistically supported for each one of the segregated genera by molecular

and morphological data, while lumping may create a heterogeneous assemble of species poorly characterised by morphological characters (Schlumpberger & Renner, 2012).

Anyway, the advantages of lumping had been stated already by Anceschi & Magli (2013), and are accepted in this article. This simple stance can also facilitate the access of botany students to the taxonomy (pers. obs.), a necessity now that classical taxonomy is publicly depreciated (Ebach and Holdrege, 2005; Packer *et al.*, 2009; Hołyński, 2010).

Because genera hitherto widely accepted are here treated as synonyms of *Maxillaria* and because a few new species have been recently published within genera here lumped in this macrogenus some nomenclatural changes are necessary in order to maintain the monophyly of the latter. They are here proposed.

Results

The new combinations are organised by their former genera. In each case, a reference of the accepted species is provided. The nomenclatural information was derived from IPNI (<http://www.ipni.org>) and Tropicos (<http://www.tropicos.org>) databases (retrieved 09/06/2015).

Former *Camaridium* Lindley species (Archila Morales & Chiron, 2011)

Maxillaria archilarum (Chiron) Molinari, *comb. nov.*

Basionym: *Camaridium archilarum* Chiron, *Richardiana* 11(4): 183 (2011)

Former *Cryptocentrum* Benthham species (Carnevali, 2001; Blanco *et al.*, 2007; Carnevali *et al.*, 2012)

Maxillaria jacqueliniana Molinari, *nom. nov.*

Replaced synonym: *Aeranthus lehmannii* Reichenbach f., *Otia Botanica Hamburgensis* 1: 10 (1878). Non *Maxillaria lehmannii* Reichenbach f. (1878).

Synonyms: *Campylocentrum lehmannii* (Reichenbach f.) Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis, Beihefte* 8(3): 164 (1921). *Cryptocentrum lehmannii* (Reichenbach f.) Garay, *Botanical Museum Leaflets* 18(3): 209, 212 (1958). *Epidorchis lehmannii* (Reichenbach f.) Kuntze, *Revisio Generum Plantarum* 2: 660 (1891).

Etymology: this species is renamed after Jacqueline Hernández Mejía, colleague and friend of the author, who collected for him his very first orchids.

***Maxillaria beckendorffii* (Carnevali) Molinari, comb. nov.**

Basionym: *Cryptocentrum beckendorffii* Carnevali, *Phytotaxa* 68: 46 (2012)

***Maxillaria roseans* (Schlechter) Molinari, comb. nov.**

Basionym: *Anthosiphon roseans* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis. Beihefte* 7: 183 (1920)

Synonym: *Cryptocentrum roseans* (Schlechter) A.D. Hawkes, *Orchid Journal* 2: 379 (1953)

***Maxillaria novoae* Molinari, nom. nov.**

Replaced synonym: *Centroglossa peruviana* Cogniaux, *Bulletin de la Société Royale de Botanique de Belgique* 43: 331 (1907). Non *Maxillaria peruviana* (C.Schweinfurth) D.E.Bennett & Christenson (1998).

Synonym: *Cryptocentrum peruvianum* (Cogniaux) C. Schweinfurth, *Botanical Museum Leaflets* 12(6): 188 (1946)

Etymology: this species is named honouring the maternal grandfather of the author, Amaro Novoa, orchid grower and amateur gardener.

***Maxillaria novoae* subsp. *minor* (Schlechter) Molinari, comb. nov.**

Basionym: *Cryptocentrum minus* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 10: 389 (1912)

Synonym: *Cryptocentrum peruvianum* subsp. *minus* (Schlechter) Carnevali, *Harvard Papers in Botany* 5(2): 482 (2001)

***Maxillaria novoae* subsp. *dactylina* (Carnevali) Molinari, comb. nov.**

Basionym: *Cryptocentrum peruvianum* (Cogniaux) C.Schweinfurth subsp. *dactylinum* Carnevali, *Harvard Papers on Botany* 5(2): 482 (2001)

***Maxillaria herbacea* Molinari, nom. nov.**

Replaced synonym: *Cryptocentrum caespitosum* Carnevali, *Harvard Papers on Botany* 5(2): 472 (2001). Non *Maxillaria caespitosa* C. Schweinfurth (1945).

Etymology: the epithet denotes the habit of the plant.

***Maxillaria dodsonii* (Carnevali) Molinari, comb. nov.**

Basionym: *Cryptocentrum dodsonii* Carnevali, *Harvard Papers on Botany* 5(2): 474 (2001)

***Maxillaria dunstervilleorum* (Carnevali & Romero) Molinari, comb. nov.**

Basionym: *Cryptocentrum dunstervilleorum* Carnevali & Romero, *Die Orchidee, Beihefte, Deutsch Orchideen Gesellschaft* 1: 3 (1994)

Maxillaria escobarii* (Carnevali) Molinari, *comb. nov.

Basionym: *Cryptocentrum escobarii* Carnevali, *Harvard Papers on Botany* 5(2): 477 (2001) [As “escobari”]

Maxillaria cryptocentroides* Molinari, *nom. nov.

Replaced synonym: *Cryptocentrum flavum* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 12: 214 (1913). Non *Maxillaria flava* Ames, F.T.Hubbard & C.Schweinfurth (1934).

Etymology: the epithet tries to reflect the nomenclatural history of the species.

Maxillaria gracillima* (Ames & C.Schweinfurth) Molinari, *comb. nov.

Basionym: *Cryptocentrum gracillimum* Ames & C.Schweinfurth *Schedulae Orchidiana* 8: 68 (1925)

Maxillaria mystkowskana* Molinari, *nom. nov.

Replaced synonym: *Cryptocentrum hirtzii* Dodson, *Orquideologia* 19(1): 89 (1993). Non *Maxillaria hirtzii* Dodson & Andreetta (1982).

Etymology: this epithet honours Katarzyna Mystkowska, Polish orchidologist.

Maxillaria inaequalisepala* (C.Schweinfurth) Molinari, *comb. nov.

Basionym: *Cryptocentrum inaequisepalum* C.Schweinfurth, *Botanical Museum Leaflets* 12: 186 (1946)

Maxillaria amplifoliata* Molinari, *nom. nov.

Replaced synonym: *Cryptocentrum latifolium* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis. Beihefte* 19: 247 (1923). Non *Maxillaria latifolia* Lindley (1832)

Etymology: the epithet refers to the characteristics of the leaves.

Maxillaria fusae* Molinari, A.G.Molinari & A.F.Molinari, *nom. nov.

Replaced synonym: *Cryptocentrum longipetalum* Carnevali, *Harvard Papers on Botany* 5(2): 479 (2001). Non *Maxillaria longipetala* Ruiz & Pavón (1798).

Etymology: the authors of the species, all siblings, want to dedicate this species to their most loved Fusa G. Molinari-Novoa, the youngest of their family.

Maxillaria pseudobulbosa* (C.Schweinfurth) Molinari, *comb. nov.

Basionym: *Cryptocentrum pseudobulbosum* C.Schweinfurth, *Botanical Museum Leaflets* 12: 189 (1946)

Synonym: *Anthosiphon pseudobulbosus* (C.Schweinfurth) Garay, *Botanical Museum Leaflets* 23(7): 303 (1973)

***Maxillaria silverstonei* (Carnevali) Molinari, comb. nov.**

Basionym: *Cryptocentrum silverstonei* Carnevali, *Harvard Papers on Botany* 5(2): 483 (2001)

***Maxillaria sciabolata* Molinari, nom. nov.**

Replaced synonym: *Cryptocentrum spathaceum* Dodson, *Orquideologia* 19(1): 90 (1993). Non *Maxillaria spathacea* Lindley (1832).

Etymology: from the Italian “sciabolato”, meaning “saber-shaped”.

***Maxillaria standleyi* (Ames) Molinari, comb. nov.**

Basionym: *Cryptocentrum standleyi* Ames, *Schedulae Orchidiana* 9: 55 (1925)

***Maxillaria calcarata* (Schlechter) Molinari, comb. nov.**

Basionym: *Pittierella calcarata* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 3(31-32): 81 (1906)

Synonym: *Cryptocentrum calcaratum* (Schlechter) Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 12(322-324): 214 (1913)

Former *Cyrtidiorchis* Rauschert species (Garay, 1969; Blanco *et al.*, 2007)

***Maxillaria avis* Molinari, nom. nov.**

Replaced synonym: *Camaridium alatum* Lindley, in G.Bentham, *Plantas Hartwegianas imprimis Mexicanas*: 153 (1845). Non *Maxillaria alata* Ruiz & Pavón (1798).

Synonyms: *Cyrtidiorchis alata* (Lindley) Rauschert, *Taxon* 31(3): 560 (1982). *Cyrtidium alatum* (Lindley) Garay, *Caldasia* 8: 525 (1962)

Etymology: the epithet is a substantive meaning “bird”, as a reference to the former epithet (“winged”).

***Maxillaria rhomboglossa* (F.Lehmann & Kraenzlin) Molinari, comb. nov.**

Basionym: *Chrysocynnis rhomboglossa* F.Lehmann & Kraenzlin, *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 26(5): 479 (1899)

Synonyms: *Cyrtidiorchis rhomboglossa* (F.Lehmann & Kraenzlin) Rauschert, *Taxon* 31(3): 560 (1982). *Cyrtidium rhomboglossum* (F.Lehmann & Kraenzlin) Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 27: 178 (1924)

Maxillaria triptera* (Schlechter) Molinari, *comb. nov.

Basionym: *Chrysocynis triptera* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis. Beihefte* 7: 180 (1920)

Synonyms: *Cyrtidiorchis triptera* (Schlechter) Rauschert, *Taxon* 31(3): 560 (1982). *Cyrtidium rhomboglossum* (Schlechter) Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 27: 179 (1924)

Maxillaria gerardii* (P.Ortiz) Molinari, *comb. nov.

Basionym: *Cyrtidiorchis gerardii* P.Ortiz *Orquideologia* 25(2): 119 (2008)

Maxillaria frontinoensis* (Garay) Molinari, *comb. nov.

Basionym: *Cyrtidium frontinoense* Garay, *Orquideologia* 4: 10 (1969)

Synonym: *Cyrtidiorchis frontinoensis* (Garay) Rauschert, *Taxon* 31: 560 (1982)

Maxillaria stumpfleii* (Garay) Molinari, *comb. nov.

Basionym: *Cyrtidium stumpfleii* Garay, *Orquideologia* 4: 6 (1969)

Synonym: *Cyrtidiorchis stumpfleii* (Garay) Rauschert, *Taxon* 31: 560 (1982)

Former *Heterotaxis* Lindley (Ojeda *et al.*, 2005; Sambin & Chiron, 2014; 2015; Archila & Chiron, 2014)

Maxillaria discifolia* (Sambin & Chiron) Molinari, *comb. nov.

Basionym: *Heterotaxis disciflora* Sambin & Chiron, *Richardiana* 14: 252 (2014)

Maxillaria faecalis* (Archila & Chiron) Molinari, *comb. nov.

Basionym: *Heterotaxis faecalis* Archila & Chiron, *Richardiana* 15: 116 (2014)

Maxillaria ventricosa* (Sambin & Chiron) Molinari, *comb. nov.

Basionym: *Heterotaxis ventricosa* Sambin & Chiron, *Richardiana* 15: 136 (2015)

Former *Maxillariella* M.A.Blanco species (Blanco *et al.*, 2007; Pupulin, 2012a)

Maxillaria kolanowskana* Molinari, *nom. nov.

Replaced synonym: *Camaridium vinosum* Rolfe, *Bulletin of Miscellaneous Information, Royal Gardens, Kew* 1922(1): 25 (1922). Non *Maxillaria vinosa* Senghas (1993).

Synonym: *Maxillariella vinosa* (Rolfe) M.A.Blanco & Carnevali, *Lankesteriana* 7(3): 530 (2007)

Etymology: the epithet honours Marta Kolanowska, Polish orchidologist.

***Maxillaria pavonica* Molinari, nom. nov.**

Replaced synonym: *Fernandezia punctata* Ruiz & Pavón, *Systema Vegetabilium Florae Peruviana et Chilensis* 1: 239 (1798). Non *Maxillaria punctata* Loddiges (1914).

Synonym: *Maxillariella punctata* (Ruiz & Pavón) Pupulin, *Anales del Jardín Botánico de Madrid* 69(1): 76 (2012)

Etymology: the epithet honours José Antonio Pavón, Spanish botanist.

***Maxillaria paredesiorum* (Archila & Chiron) Molinari, comb. nov.**

Basionym: *Maxillariella paredesiorum* Archila & Chiron, *Richardiana* 11(4): 189 (2011)

Former *Mormolyca* Fenzl species (Garay & Wirth, 1959; Blanco *et al.*, 2007)

***Maxillaria schlimii* (Linden & Reichenbach f.) Molinari, comb. nov.**

Basionym: *Chrysocynis schlimii* Linden & Reichenbach f., *Bonplandia* 2: 280 (1854)

Synonym: *Mormolyca schlimii* (Linden & Reichenbach f.) M.A.Blanco, *Lankesteriana* 7(3): 531 (2007)

***Maxillaria anceschiana* Molinari, nom. nov.**

Replaced synonym: *Chrysocynis lehmanii* Rolfe, *Bulletin of Miscellaneous Information, Royal Gardens, Kew* 1918(7): 235 (1918). Non *Maxillaria lehmannii* Reichenbach f. (1878).

Synonym: *Mormolyca lehmanii* (Rolfe) M.A.Blanco, *Lankesteriana* 7(3): 531 (2007)

Etymology: named in honour of Giovanna Anceschi, Italian botanist.

***Maxillaria magliana* Molinari, nom. nov.**

Replaced synonym: *Cyrtoglottis gracilipes* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 7: 182 (1920). Non *Maxillaria gracilipes* Schlechter (1929).

Synonym: *Mormolyca gracilipes* (Schlechter) Garay & M.Wirth, *Canadian Journal of Botany* 37: 482 (1959)

Etymology: named in honour of Alberto Magli, Italian botanist.

***Maxillaria postarinoi* Molinari, nom. nov.**

Replaced synonym: *Mormolyca aurorae* D.E.Bennett & Christenson, *Lindleyana* 13(2): 74 (1998). Non *Maxillaria aurorae* D.E.Bennett & Christenson (1995).

Etymology: named in honour of Nazzareno Postarino, Italian botanist.

Maxillaria fuchsii* (J.T.Atwood) Molinari, *comb. nov.

Basionym: *Mormolyca fuchsii* J.T.Atwood, *Selbyana* 2(4): 343 (1978)

Maxillaria fumea* (Bogarín & Pupulin) Molinari, *comb. nov.

Basionym: *Mormolyca fumea* Bogarín & Pupulin, *Orchid Digest* 74(1): 43 (2010)

Maxillaria lineolata* (Fenzl) Molinari, *comb. nov.

Basionym: *Mormolyca lineolata* Fenzl, *Denkschriften der Kaiserlichen Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Klasse* 1: 253 (1850)

Maxillaria scheidweileriana* Molinari, *nom. nov.

Replaced synonym: *Maxillaria galeata* Scheidweiler, *Allgemeine Gartenzeitung* 10: 309 (1842). Non *Maxillaria galeata* Lindley (1831).

Synonym: *Mormolyca galeata* (Scheidweiler) Garay & M.Wirth, *Canadian Journal of Botany* 37(3): 481 (1959)

Etymology: honouring Michael Joseph François Scheidweiler, discoverer of the species.

Maxillaria perulera* Molinari, *nom. nov.

Replaced synonym: *Mormolyca peruviana* C.Schweinfurth, *American Orchid Society Bulletin* 13: 196 (1944). Non *Maxillaria peruviana* (C.Schweinfurth) D.E.Bennett & Christenson (1998) [based on *Maxillaria xantholeuca* Schlechter var. *peruviana* C.Schweinfurth (1945)].

Etymology: the adjective "perulera" is an archaism for "Peruvian".

Maxillaria multifoliata* Molinari, *nom. nov.

Replaced synonym: *Mormolyca polyphylla* Garay & M.Wirth, *Canadian Journal of Botany* 37(3): 485 (1959). Non *Maxillaria polyphylla* Reichenbach f. (1863).

Etymology: the epithet is the Latin translation of the word "polyphylla".

Maxillaria schweinfurthiana* (Garay & M.Wirth) Molinari, *comb. nov.

Basionym: *Mormolyca schweinfurthiana* Garay & M.Wirth, *Canada Journal of Botany* 37: 490 (1959)

Synonym: *Cyrtoglottis peruviana* C.Schweinfurth, *American Orchid Society Bulletin* 14: 152 (1945)

Maxillaria kellyana* Mayta & Molinari, *nom. nov.

Replaced synonym: *Trigonidium ringens* Lindley, *Edwards's Botanical Register* 26: misc. 57 (1840). Non *Maxillaria ringens* Reichenbach f. (1863).

Synonym: *Mormolyca ringens* Schlechter, *Die Orchideen*, 1st ed.: 436 (1914).

Etymology: the epithet honours Kelly Anco, mother of the senior author of the plant name, who suggested the name.

Former *Ornithidium* Salisbury ex R.Brown species (Arévalo *et al.*, 2012)

Maxillaria montezumae (Arévalo & Christenson) Molinari, *comb. nov.*

Basionym: *Ornithidium montezumae* Arévalo & Christenson, *Orchids* (West Palm Beach) 82(1): 45 (2012)

Former *Pityphyllum* Schlechter species (Sweet, 1972; Blanco *et al.*, 2007)

Maxillaria amesiana (Schlechter) Molinari, *comb. nov.*

Basionym: *Pityphyllum amesianum* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 27: 86 (1924)

Maxillaria antioquiensis (Schlechter) Molinari, *comb. nov.*

Basionym: *Pityphyllum antioquiense* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis* 7: 163 (1920)

Maxillaria raimondiana Molinari, *nom. nov.*

Replaced synonym: *Pityphyllum hirtzii* Dodson, *Orquideología* 20(1): 106 (1996). *Non Maxillaria hirtzii* Dodson & Andreetta (1982).

Etymology: named on honour of Antonio Raimondi dell'Acqua, Italian naturalist.

Maxillaria pinoides (Sweet) Molinari, *comb. nov.*

Basionym: *Pityphyllum pinoides* Sweet, *Orquideología* 7(4): 214 (1972)

Former *Rhetinantha* M.A.Blanco species (Szlachetko & Kolanowska, 2013)

Maxillaria tatiana Molinari, *nom. nov.*

Replaced synonym: *Rhetinantha betancurii* Szlachetko & Kolanowska, *Plant Systematics and Evolution* 299(10): 1874 (2013). *Non Maxillaria betancurii* Christenson (2013)

Etymology: the epithet honours Tatiana G.Anaya Araujo, colleague and dearest friend of the author, who supported this and every other research.

Former *Sauvetrea* Szlachetko species (Pupulin, 2012b)

Maxillaria uniflora* (Ruiz & Pavón) Molinari, *comb. nov.

Basionym: *Bletia uniflora* Ruiz & Pavón, *Systema Vegetabilium Florae Peruviana et Chilensis* 1: 230 (1798)

Synonym: *Sauvetrea uniflora* (Ruiz & Pavón) Pupulin, *Anales del Jardín Botánico de Madrid* 69(2): 160 (2012)

Former *Trigonidium* Lindley species (Blanco *et al.*, 2007)

Maxillaria danielae* Molinari, *nom. nov.

Replaced synonym: *Trigonidium acuminatum* Bateman, *Edwards's Botanical Register* 24: Misc. 74, no. 136 (1838). *Non* *Maxillaria acuminata* Lindley (1845).

Etymology: the epithet honours Daniela Galvez Gil, colleague and friend of the author.

Maxillaria egertoniana* (Bateman ex Lindley) Molinari, *comb. nov.

Basionym: *Trigonidium egertonianum* Bateman ex Lindley, *Edwards's Botanical Register* 24: misc. 73 (1838)

Maxillaria nellyae* Molinari, *nom. nov.

Replaced synonym: *Trigonidium aurorae* D.E.Bennett & Christenson, *Brittonia* 47(2): 206 (1995). *Non* *Maxillaria aurorae* D.E.Bennett & Christenson (1995).

Etymology: named after the maternal grandmother of the author, Nelly Flores.

Maxillaria deherae* Molinari, *nom. nov.

Replaced synonym: *Trigonidium christensonii* D.E.Bennett, *Brittonia* 47(2): 206 (1995). *Non* *Maxillaria christensonii* D.E.Bennett (1998).

Etymology: named after the paternal grandmother of the author and amateur gardener, Dehera Arroyo.

Maxillaria erikae* Molinari, *nom. nov.

Replaced synonym: *Trigonidium grande* Garay, *American Orchid Society Bulletin* 26: 14 (1957). *Non* *Maxillaria grandis* Reichenbach f. (1877).

Etymology: named after Erika Paulino, Peruvian botanist and friend of the author.

***Maxillaria johannyae* Molinari, nom. nov.**

Replaced synonym: *Trigonidium insigne* Reichenbach f. ex Bentham & Hooker f., *Genera Plantarum* [Bentham & Hooker filius] 3(2): 567 (1883). Non *Maxillaria insignis* Rolfe (1922).

Etymology: named after Johanny Molina, Peruvian botanist and friend of the author.

***Maxillaria luisae* Molinari, nom. nov.**

Replaced synonym: *Trigonidium lankesteri* Ames, *Schedulae Orchidiana* 5: 32 (1923). Non *Maxillaria lankesteri* Ames (1924).

Etymology: named after Luisa Hinostroza, Peruvian archaeobotanist and friend of the author.

***Maxillaria elluziae* Molinari, nom. nov.**

Replaced synonym: *Trigonidium latifolium* Lindley, *Edwards's Botanical Register* 23: t. 1923 (1837). Non *Maxillaria latifolia* (Kunth) Lindley (1832).

Etymology: named after Elluz Huamán, Peruvian botanist and friend of the author.

***Maxillaria briggittheae* Molinari, nom. nov.**

Replaced synonym: *Trigonidium loretoense* Schlechter, *Repertorium Specierum Novarum Regni Vegetabilis*, Beihefte 9: 106 (1921). Non *Maxillaria loretoensis* C.Schweinfurth (1944).

Etymology: named after Briggithe Melchor, Peruvian botanist and friend of the author.

***Maxillaria macrantha* (Barbosa Rodrigues) Molinari, comb. nov.**

Basionym: *Trigonidium macranthum* Barbosa Rodrigues, *Genera et Species Orchidearum Novarum* 1: 105 (1877)

***Maxillaria obtusa* (Lindley) Molinari, comb. nov.**

Basionym: *Trigonidium obtusum* Lindley, *Edwards's Botanical Register* 23: t. 1923 (1837)

***Maxillaria soulangeana* Molinari, nom. nov.**

Replaced synonym: *Trigonidium riopalenquense* Dodson, *Selbyana* 2(1): 56 (1977). Non *Maxillaria riopalenquensis* Dodson (1984).

Etymology: the epithet honours Soulange Gramegna, prominent Peruvian intellectual and friend of the author.

Maxillaria turbinata* (Reichenbach f.) Molinari, *comb. nov.

Basionym: *Trigonidium turbinatum* Reichenbach f., *Hamburger Garten- und Blumenzeitung* 15: 52 (1859)

Discussion

Other segregates from the *Maxillaria*-complex were already reviewed by Blanco *et al.* (2007). However, the then-accepted *Brasiliorchis*, *Christensonella*, *Hylaeorchis*, *Inti*, *Mapinguari* and *Nitidobulbon* are not included in this revision, since none of their species require transfer to *Maxillaria*.

These sixty-six nomenclatural novelties will provide the uniformity such a big genus like *Maxillaria* needs. The genus, as currently circumscribed, encompasses an amazing amount of 658 species (Chase *et al.*, 2015), and is amongst the largest within the family.

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Finally, I would like to state that this paper was inspired by and is dedicated to Eric Christenson, whose untimely death deprived us all from an enlightened mind. He was proved to be right about the “*Maxillaria* issue” but is not here to see it. However, Dr. Christenson will be still around us in each published name, herbarium sheet or determination tag he left around the Globe. May his name live forever!

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